

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049034 A2

(51) International Patent Classification⁷: A61K 31/513,
31/5025, 31/44, A61P 25/18

(74) Agent: GIDDINGS, Peter, John; GlaxoSmithKline, 980
Great West Road, Brentford Middlesex TW8 9GS (GB).

(21) International Application Number:
PCT/EP2004/013076

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GR, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(22) International Filing Date:
17 November 2004 (17.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0326967.7 19 November 2003 (19.11.2003) GB
0327937.9 2 December 2003 (02.12.2003) GB

(71) Applicant (for all designated States except US): GLAXO
GROUP LIMITED [GB/GB]; Glaxo Wellcome House,
Berkeley Avenue, Greenford Middlesex UB6 0NN (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HAGAN, James
[GB/GB]; GlaxoSmithKline, New Frontiers Science Park
South, Third Avenue, Harlow Essex CM15 5AW (GB).
ROUTLEDGE, Carol [GB/GB]; GlaxoSmithKline, New
Frontiers Science Park South, Third Avenue, Harlow Essex
CM15 5AW (GB).

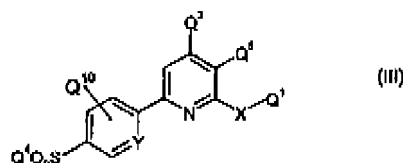
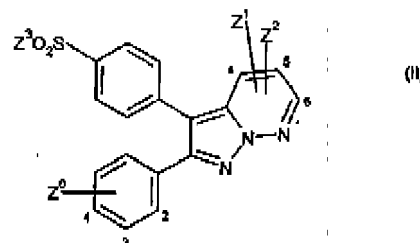
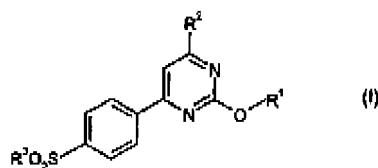
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

[Continued on next page]

(54) Title: USE OF CYCLOOXYGENASE-2 SELECTIVE INHIBITORS FOR THE TREATMENT OF SCHIZOPHRENIC DISORDERS



(57) Abstract: The invention concerns the use of compounds of formula (I), (II) and (III) which are COX-2 (cyclooxygenase-2) inhibitors, and pharmaceutically acceptable salts and solvates thereof, for the treatment of schizophrenic disorders. Schizophrenic disorders of the invention are to be intended schizophrenia, delusional disorders, affective disorders, autism or tic disorders, schizophreniform disorders, in particular chronic schizophrenic psychoses and schizoaffective psychoses, temporary acute psychotic disorders. Moreover, the invention is concerned with the use of a pyrimidine derivative known as COX-2 inhibitor in combination with a neuroleptic drug for the treatment of schizophrenic disorders such as those defined above.

WO 2005/049034 A2